

PCT/IB2003/004645  
Received 2 November 2004

**ART 34 AMDT**

1 / 4

**SEQUENCE LISTING**

<110> THE DEPARTMENT OF AGRICULTURE, WESTERN AUSTRALIA

<120> WHEAT PLANTS HAVING INCREASED RESISTANCE TO  
IMIDAZOLINONE HERBICIDES

<130> 16313-0234

<140> PCT/IB03/04645

<141> 2003-07-09

<150> 60/394,991

<151> 2002-07-10

<160> 9

<170> PatentIn Ver. 2.1

<210> 1

<211> 509

<212> DNA

<213> *Triticum aestivum*

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gcatcgagaa	cctcccoagtg	aagggtatga	tatggaaacaa	ccaggatctg	ggaatggtgg	240
tgcagtggga	ggataggtt	tacaaggccaa	atogggggoaa	ccataacatt	ggcaaccocag	300
aaaatggagag	tggatatat	ccagattttg	tgacgattgc	taaaggatcc	aacgttccag	360
caggatggat	gacgaaagaag	agcgaagtca	ctgcagcaat	aaagaagatg	cttgagaccc	420
caggggccata	cttggatggat	atcatagttc	cgcatcagga	goacgtgtcg	cttatgatcc	480
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4212 PRT

<213> *Triticum aestivum*

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Ala Gln Tyr Tyr Thr Tyr Lys Arg Pro Arg Gln Trp Leu Ser Ser Ser  
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Gly Leu Gly Ala Met Gly Phe Gly Leu Pro Ala Ala Ala Gly Ala Ala  
20 25 30

Val Ala Asn Pro Gly Val Thr Val Val Asp Ile Asp Asp Gly Asp Gly Ser  
35 40 45

Pro Val Lys Val Met Ile Leu Asn Asn Gln His Leu Gly Met Val Val  
65 70 75 80

ART 34 AMDT

2/4

Gln Trp Glu Asp Arg Phe Tyr Lys Ala Asn Arg Ala His Thr Tyr Leu  
85 90 95

Gly Asn Pro Glu Asn Glu Ser Glu Ile Tyr Pro Asp Phe Val Thr Ile  
100 105 110

Ala Lys Gly Phe Asn Val Pro Ala Val Arg Val Thr Lys Lys Ser Glu  
115 120 125

Val Thr Ala Ala Ile Lys Met Leu Glu Thr Pro Gly Pro Tyr Leu  
130 135 140

Leu Asp Ile Ile Val Pro His Gln Glu His Val Leu Pro Met Ile Pro  
145 150 155 160

Asn Gly Gly Ala Phe Lys Asp Met Ile  
165

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<212> DNA

<213> Triticum aestivum

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gttgtcgaca ttgtatggaga tggtagtttc ctatgaaca ttccaggagtt ggcattgtat 180  
cgtattgaga acctccctgt gaaggtqatg atattgaaca accaqcatct gggatggtg 240  
gtqcaatggg aggataggtt ttacaaggcc aatcqqggcgc acacatactt tggcaaccca 300  
gaaaatgaga gtgagatata tccatgatgtt gtgacgattt ctaaaggatt caaagtrocg 360  
gcagtctgtg tgacgaaqaa gagcgaatgc actoagoaoa tcaagaagat gcttgaqacc 420  
ccagggccat acttggatggaa tatcatcgatc oecgatcagg agcacgtgtt gccttatgtat 480  
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<212> PRT

<213> Triticum aestivum

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Ala Ala Gln Tyr Tyr Tyr Lys Arg Pro Arg Gln Trp Leu Ser Ser  
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Ser Gly Leu Gly Ala Met Gly Phe Gly Leu Pro Ala Ala Gly Ala  
20 25 30

Ala Val Ala Asn Pro Gly Val Thr Val Val Asp Ile Asp Gly Asp Gly  
35 40 45

Ser Phe Leu Met Asn Ile Gln Glu Leu Ala Leu Ile Arg Ile Glu Asn  
50 55 60

Leu Pro Val Lys Val Met Ile Leu Asn Asn Gln His Leu Gly Met Val  
65 70 75 80

PRT 34 AMDT

3/4

Val Gln Trp Glu Asp Arg Phe Tyr Lys Ala Asn Arg Ala His Thr Tyr  
85 90 95

Leu Gly Asn Pro Glu Asn Glu Ser Glu Ile Tyr Pro Asp Phe Val Thr  
100 105 110

Ile Ala Lys Gly Phe Asn Val Pro Ala Val Arg Val Thr Lys Lys Ser  
115 120 125

Glu Val Thr Ala Ala Ile Lys Lys Met Leu Glu Thr Pro Gly Pro Tyr  
130 135 140

Leu Leu Asp Ile Ile Val Pro His Gln Glu His Val Leu Pro Met Ile  
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Pro Asn Gly Gly Ala Phe Lys Asp Met Ile  
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<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Illustrative  
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<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Illustrative  
conserved peptide sequence

AMENDMENT  
IPEA/AU

4/4

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Thr Arg Ser

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